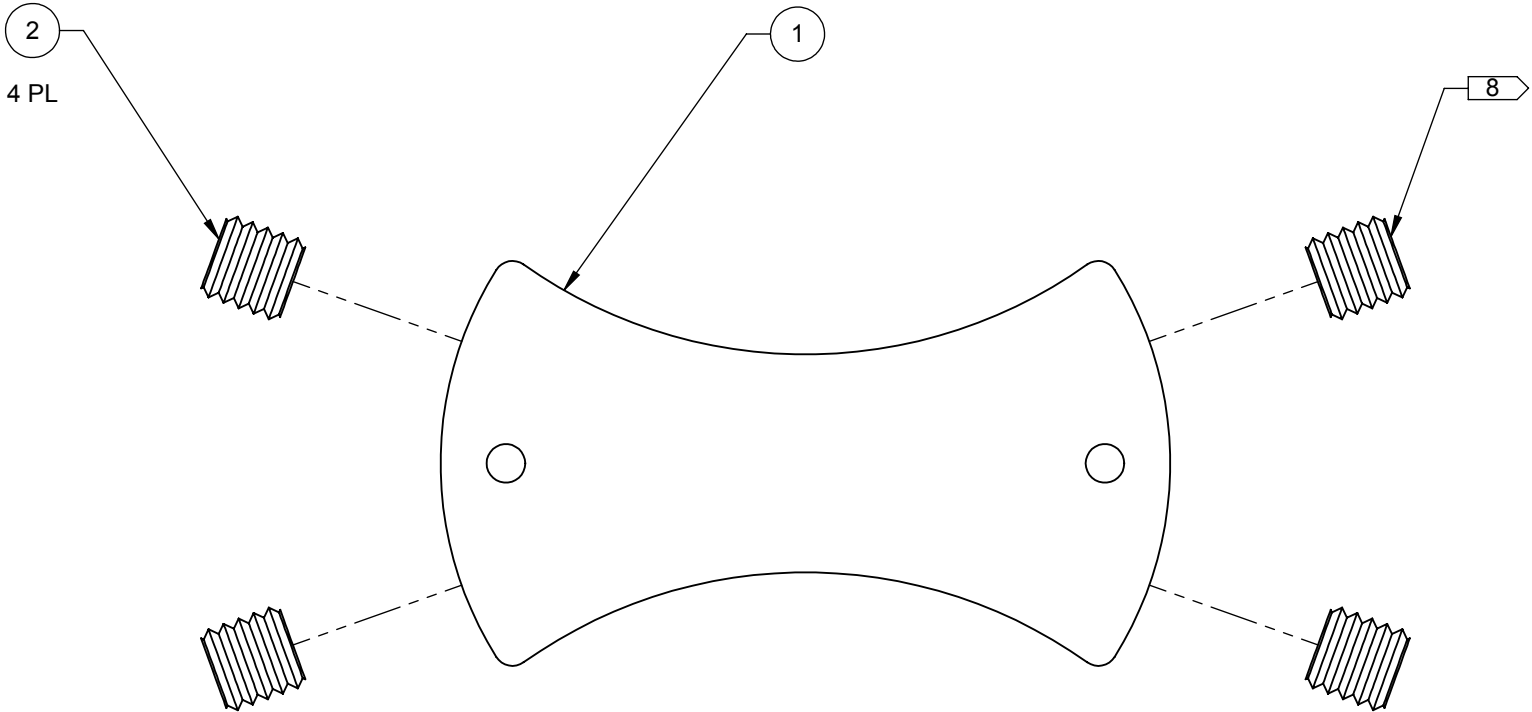


ITEM	QTY -041	P/N	DESCRIPTION
	X	D5101-041	CROSSBOLT SPACER ASSY
1	1	D5101-1	CROSSBOLT SPACER
2	4	MS21209F7-10	HELICOIL, LOCKING



D5101-041 CROSSBOLT SPACER ASSY

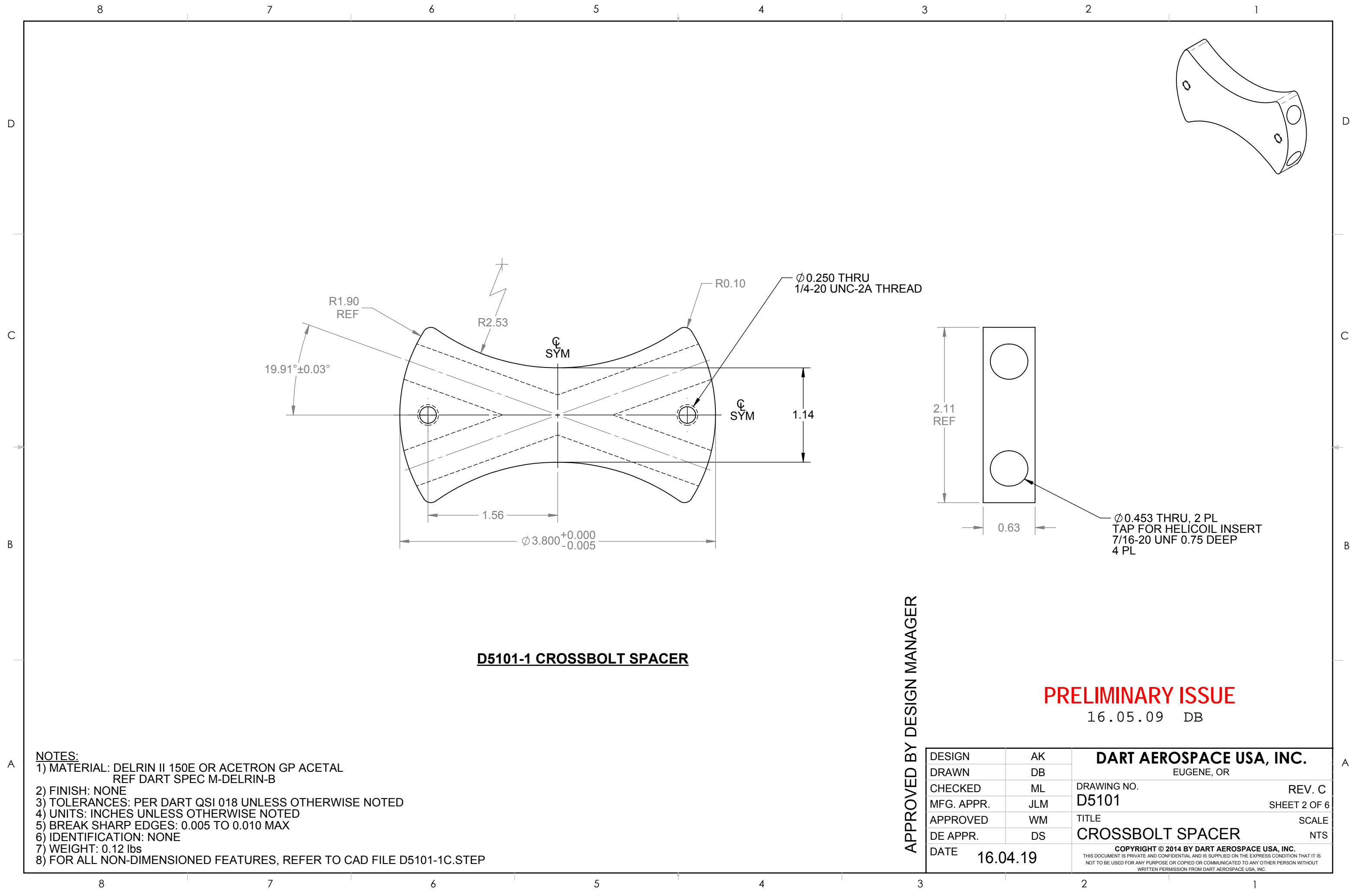
- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: NONE
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
  - 7) WEIGHT: 0.14 lbs
  - 8) INSTALL MS21209F7-10 HELICOIL ONE FULL REVOLUTION BELOW SURFACE

APPROVED BY DESIGN MANAGER

PRELIMINARY ISSUE

16.05.09 DB

C	D5101-7: R1.85 WAS R1.90 (SHEET 6)	DB	16.04.19
B	REVISE NOTE 6 (SH 1,3 & 4) & NOTE 8 (SH 1), REVISED HELICOIL ANGLE TO 19.91° WAS 19°, ADD D5101-7/-047 (SH 5&6), REMOVE 0.098 HOLES FROM -1, MS21209F7-10 WAS MS21209F7-15.	DB	15.10.15
A	NEW ISSUE	AK	14.08.07
REV.	DESCRIPTION	BY	DATE
DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	DB		
CHECKED	ML	DRAWING NO. REV. C	
MFG. APPR.	JLM	D5101 SHEET 1 OF 6	
APPROVED	WM	TITLE SCALE	
DE APPR.	DS	CROSSBOLT SPACER NTS	
DATE	16.04.19	COPYRIGHT © 2014 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



**D5101-1 CROSSBOLT SPACER**

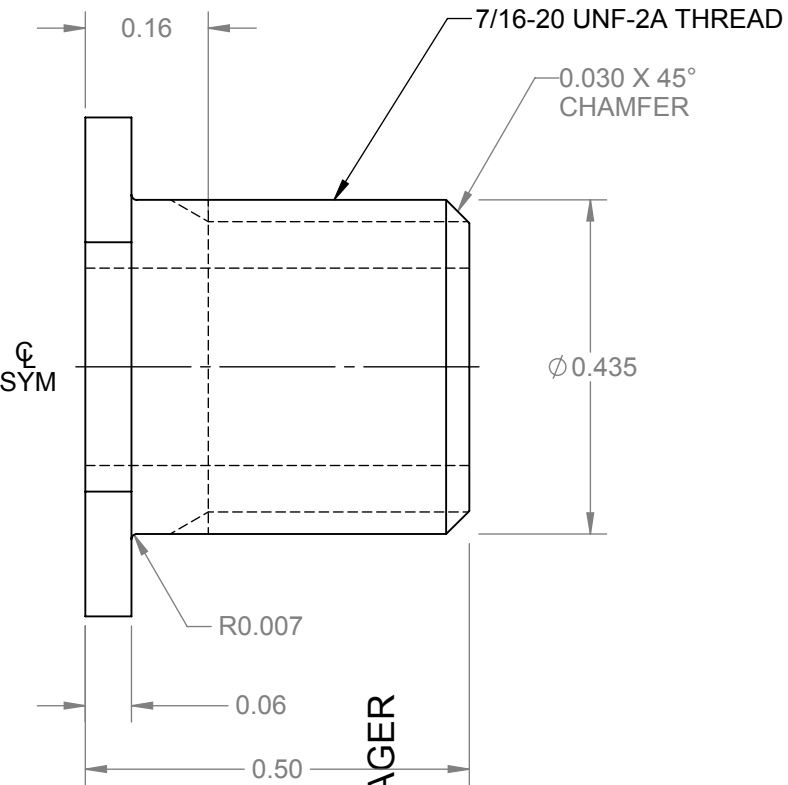
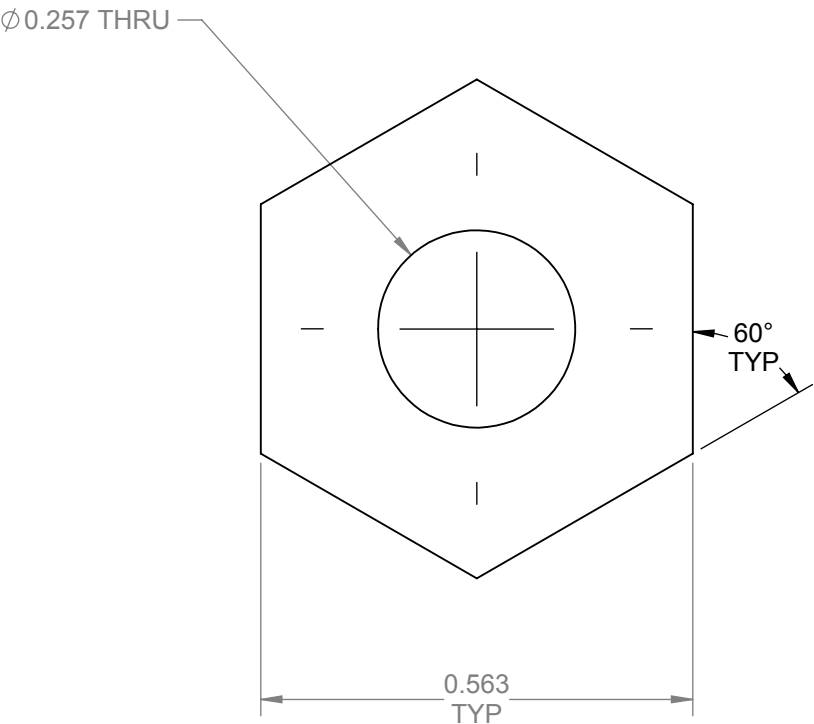
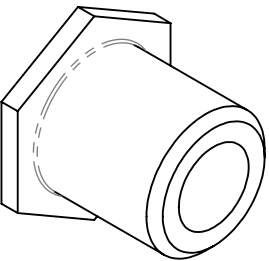
**PRELIMINARY ISSUE**

16.05.09 DB

- NOTES:
- 1) MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL  
REF DART SPEC M-DELRIN-B
  - 2) FINISH: NONE
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: NONE
  - 7) WEIGHT: 0.12 lbs
  - 8) FOR ALL NON-DIMENSIONED FEATURES, REFER TO CAD FILE D5101-1C.STEP

APPROVED BY DESIGN MANAGER

DESIGN	AK	<b>DART AEROSPACE USA, INC.</b> EUGENE, OR	
DRAWN	DB		
CHECKED	ML	DRAWING NO.	REV. C
MFG. APPR.	JLM	<b>D5101</b>	SHEET 2 OF 6
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	<b>CROSSBOLT SPACER</b>	NTS
DATE	16.04.19	<small>COPYRIGHT © 2014 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	



**D5101-3 INSERT**

**NOTES:**

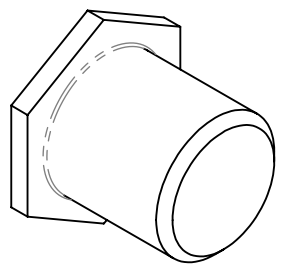
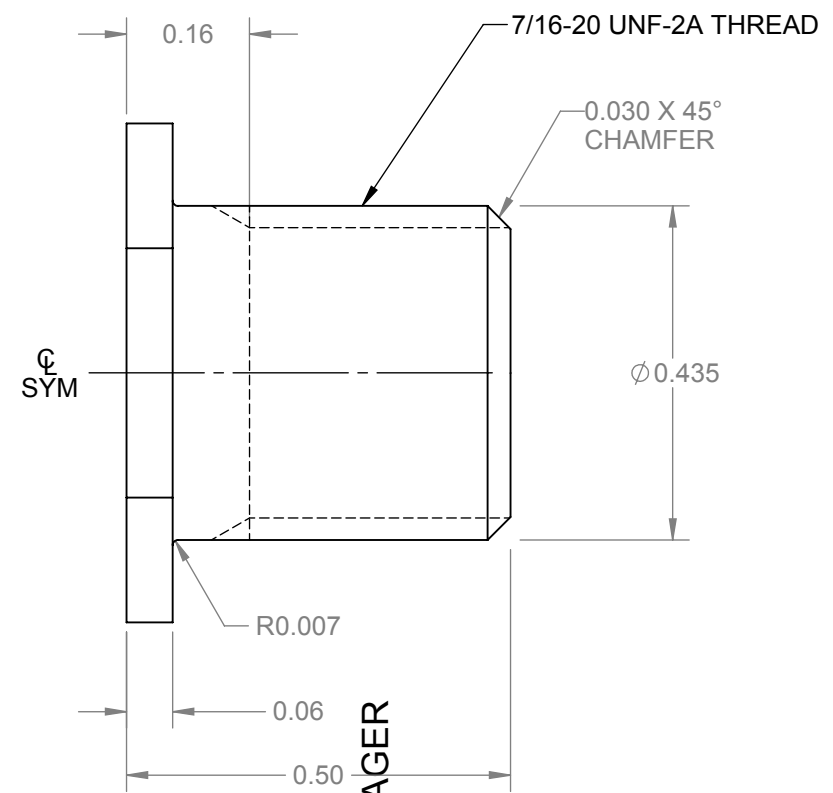
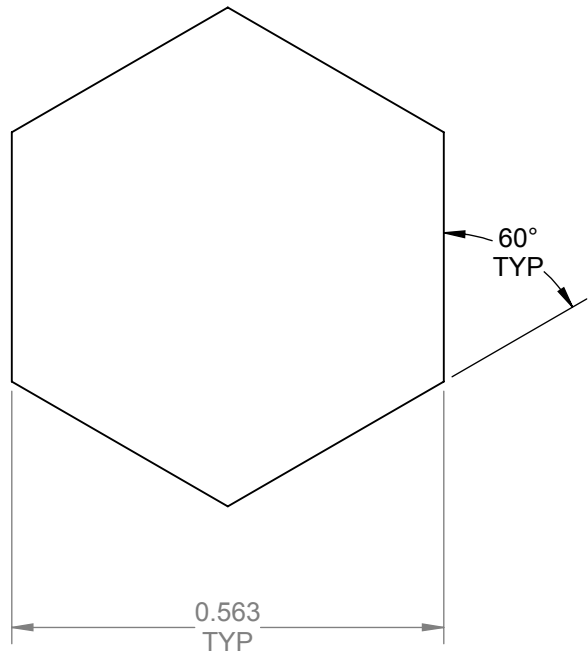
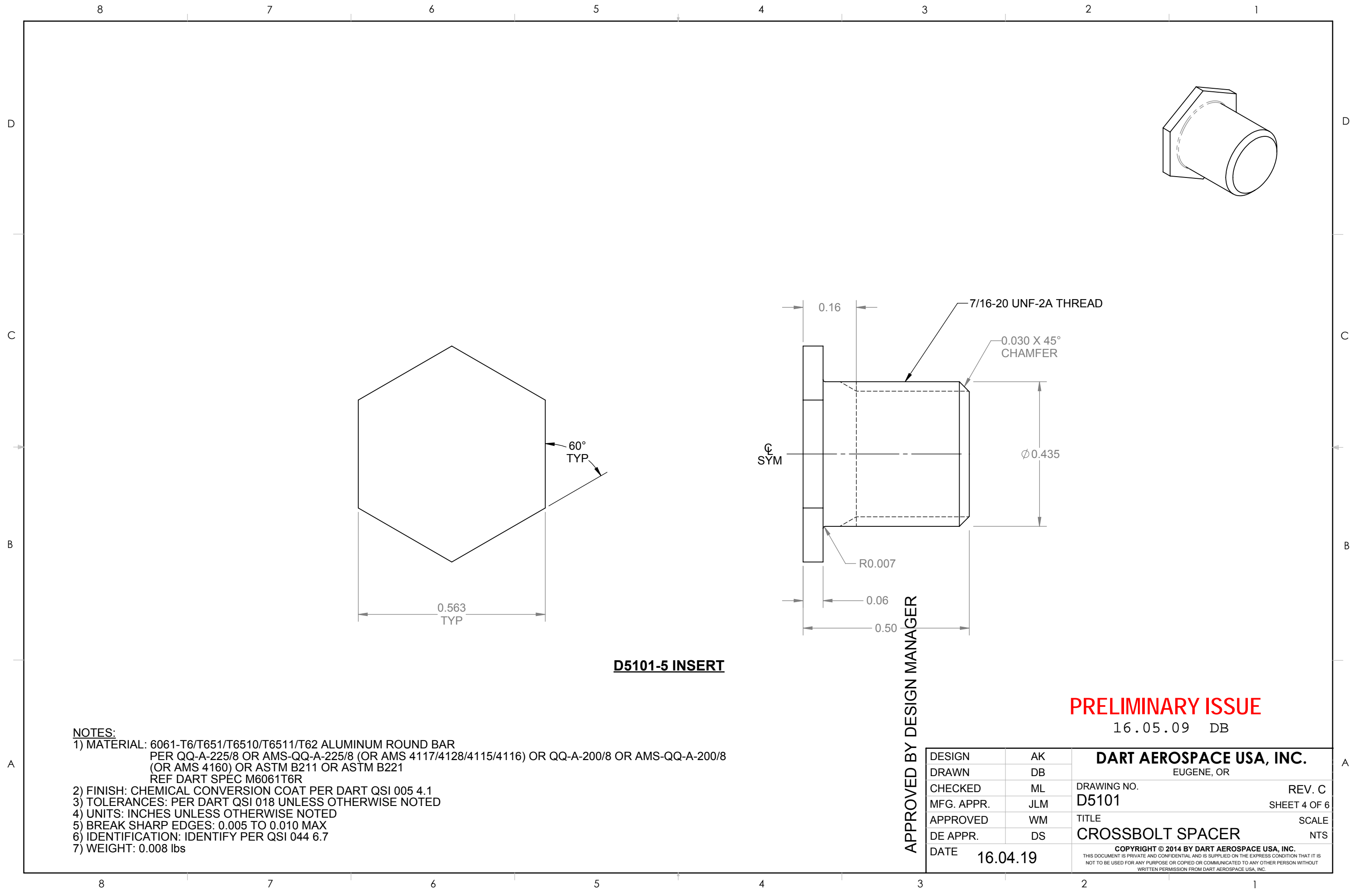
- 1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8  
(OR AMS 4160) OR ASTM B211 OR ASTM B221  
REF DART SPEC M6061T6R
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: 0.005 lbs

**PRELIMINARY ISSUE**

16.05.09 DB

APPROVED BY DESIGN MANAGER

DESIGN	AK	<b>DART AEROSPACE USA, INC.</b> EUGENE, OR	
DRAWN	DB		
CHECKED	ML	DRAWING NO.	REV. C
MFG. APPR.	JLM	<b>D5101</b>	SHEET 3 OF 6
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	<b>CROSSBOLT SPACER</b>	NTS
DATE	16.04.19	<small>COPYRIGHT © 2014 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	



**D5101-5 INSERT**

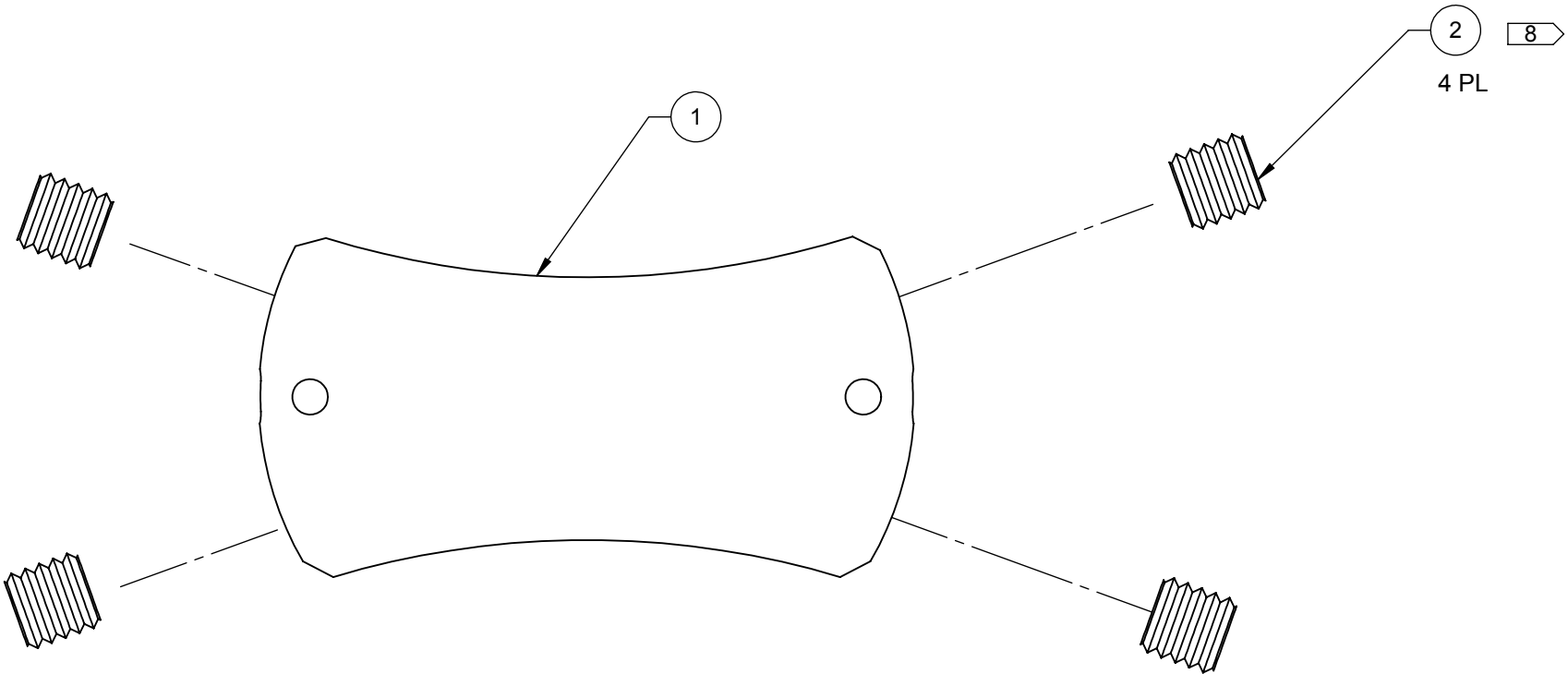
APPROVED BY DESIGN MANAGER

**PRELIMINARY ISSUE**  
16.05.09 DB

- NOTES:**  
1) MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
PER QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8  
(OR AMS 4160) OR ASTM B211 OR ASTM B221  
REF DART SPEC M6061T6R  
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7  
7) WEIGHT: 0.008 lbs

DESIGN	AK	<b>DART AEROSPACE USA, INC.</b> EUGENE, OR	
DRAWN	DB		
CHECKED	ML	DRAWING NO.	REV. C
MFG. APPR.	JLM	<b>D5101</b>	SHEET 4 OF 6
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	<b>CROSSBOLT SPACER</b>	NTS
DATE	16.04.19	COPYRIGHT © 2014 BY DART AEROSPACE USA, INC. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

ITEM	QTY -047	P/N	DESCRIPTION
	X	D5101-047	CROSSBOLT SPACER ASSY
1	1	D5101-7	CROSSBOLT SPACER
2	4	MS21209F7-10	HELICOIL, LOCKING



**D5101-047 CROSSBOLT SPACER ASSY**

APPROVED BY DESIGN MANAGER

**PRELIMINARY ISSUE**  
16.05.09 DB

- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: NONE
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
  - 7) WEIGHT: 0.15 lbs
  - 8) INSTALL MS21209F7-10 HELICOIL ONE FULL REVOLUTION BELOW ADJACENT SURFACE

DESIGN	AK	<b>DART AEROSPACE USA, INC.</b> EUGENE, OR	
DRAWN	DB		
CHECKED	ML	DRAWING NO.	REV. C
MFG. APPR.	JLM	<b>D5101</b>	SHEET 5 OF 6
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	<b>CROSSBOLT SPACER</b>	NTS
DATE	16.04.19	COPYRIGHT © 2014 BY DART AEROSPACE USA, INC. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

